

IN THE CLAIMS:

Please amend the claims as follows:

1. **(Currently Amended)** A hydrogen supply unit comprising:

reformation means for reforming a source gas containing hydrocarbons to generate a hydrogen-rich reformed gas;

a fuel cell consuming the reformed gas for generating electric power ~~by use of said reformed gas~~; and

purification means for purifying hydrogen ~~from the~~ in an exhaust gas discharged from said fuel cell,

wherein the purification means receives the exhaust gas containing the hydrogen, and the exhaust gas is discharged only from the fuel cell.

2. **(Currently Amended)** The hydrogen supply unit according to claim 1, wherein said purification means ~~conducts purification of hydrogen by use of the membrane separation method based on~~ purifies the hydrogen, which is passed through a hydrogen permeable membrane and a hydrogen purifying adsorbent for purifying the hydrogen ~~by use of pressure swing adsorption method.~~

3. **(Currently Amended)** The hydrogen supply unit according to claim 1, wherein said purification means comprises:

a membrane separator for conducting membrane separation based on a hydrogen permeable membrane;

a pressurizer ~~for use in purification~~ for pressurizing the exhaust gas purified by said membrane separator; and

an adsorber for purifying the exhaust gas pressurized by said pressurizer ~~for use in purification by use of the pressure swing adsorption method.~~

4. **(Currently Amended)** The hydrogen supply unit according to claim 1, wherein said purification means comprises:

a membrane separator for conducting membrane separation based on a hydrogen permeable membrane provided with a function for pressurizing hydrogen; and

an adsorber for purifying, ~~by use of the pressure swing adsorption method,~~ the exhaust gas pressurized by said membrane separator.

5. **(Currently Amended)** The hydrogen supply unit according to claim ~~any one of claims 2, 3, and 4,~~ wherein the membrane separator for conducting the membrane separation ~~method in said purification means~~ comprises electrodes ~~respectively on both~~ front and back surfaces of said hydrogen permeable membrane, and conducts the ~~separation~~ purification of the hydrogen by providing an electrical potential difference between the front and back surfaces of said hydrogen permeable membrane to make hydrogen ions permeate said hydrogen permeable membrane.

6. **(Currently Amended)** The hydrogen supply unit according to ~~any one of claims 2, claim~~ claim 3, and 4, wherein the adsorber includes ~~for conducting said pressure swing adsorption method is provided with~~ a plurality of containers charged with an adsorbent, and purifies the hydrogen by ~~making the gas to be purified pass~~ passing the exhaust gas containing the hydrogen through the plurality of containers while varying the pressure of the exhaust gas ~~being purified.~~

7. (Currently Amended) The hydrogen supply unit according to claim 3 [[2]], further comprising:

a first passage directing an offgas separated by said hydrogen permeable membrane to said reformation means, and

a second passage directing an offgas separated by said pressurizer to said fuel cell,

wherein said reformation means reforms, ~~by heating with the aid of heating means that uses the source gas as fuel, said source gas, and consumes uses when reforming, as the fuel for said heating means,~~ the offgas directed to the reformation means by the first passage ~~separated by said membrane separation method,~~ in addition to said source gas; and

wherein said fuel cell generates electric power ~~by using the offgas directed to the fuel cell by the second passage , separated by said pressure swing adsorption, in addition to said reformed gas.~~

8. (Currently Amended) The hydrogen supply unit according to claim 3 or 4, further comprising:

a first passage directing an offgas separated by said membrane separator to said reformation means, and

a second passage directing an offgas separated by said adsorber to said fuel cell,

wherein said reformation means reforms, ~~by heating with the aid of the heater that uses the source gas as fuel, said source gas, and consumes uses when reforming,~~

~~as the fuel for said heater, the offgas directed to said reformation means by the first passage separated by said membrane separator, in addition to said source gas; and~~

~~wherein said fuel cell generates electric power by using the offgas directed to the fuel cell by the second passage separated by said adsorber, in addition to said reformed gas.~~

9. **(Previously Presented)** The hydrogen supply unit according to Claim 8, comprising storage means for storing the hydrogen purified by said purification means.

10. **(Currently Amended)** The hydrogen supply unit according to claim 9, wherein said storage means comprises:

a pressurization means ~~for use in storage~~ for pressurizing the hydrogen gas to be stored, and

connection means for being connected to a vehicle that consumes ~~uses~~ hydrogen as fuel.

11. **(Currently Amended)** The hydrogen supply unit according to ~~any one of claims~~ claim 3, 4 and 8, comprising:

storage means for storing the hydrogen purified by said purification means, wherein said storage means comprises:

a first tank for storing the gas supplied from said adsorber;

a pressurizer ~~for use in storage~~ for pressurizing the gas supplied from said first tank;

a second tank for storing the gas supplied from said pressurizer ~~for use in storage~~; and

a connector for connecting said second tank to a vehicle that consumes ~~uses~~ hydrogen as fuel.

12. **(New)** The hydrogen supply unit according to claim 4, wherein the membrane separator for conducting the membrane separation comprises electrodes on front and back surfaces of said hydrogen permeable membrane, and conducts the purification of the hydrogen by providing an electrical potential difference between the front and back surfaces of said hydrogen permeable membrane to make hydrogen ions permeate said hydrogen permeable membrane.

13. **(New)** The hydrogen supply unit according to claim 4, wherein the adsorber includes a plurality of containers charged with an adsorbent, and purifies the hydrogen by passing the exhaust gas containing the hydrogen through the plurality of containers while varying the pressure of the exhaust gas.

14. **(New)** The hydrogen supply unit according to claim 4, comprising:
storage means for storing the hydrogen purified by said purification means,
wherein said storage means comprises:

a first tank for storing the gas supplied from said adsorber;

a pressurizer in storage for pressurizing the gas supplied from said first tank;

a second tank for storing the gas supplied from said pressurizer in storage; and

a connector for connecting said second tank to a vehicle that consumes hydrogen as fuel.